

Customer ID: 04206Z Account ID: Z00372 Lab Control ID: 19F01598 Received: Oct 08, 2019 Reported: Nov 07, 2019 Purchase Order No. None Received

Kevin Lawrence Desert View Power, Inc. 62-300 Gene Welmas Drive Mecca, CA 92254-0758

ANALYTICAL REPORT

Report may only be copied in its entirety.
Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

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Mark A. Pugh Fuel Laboratory Manager



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ANALYTICAL REPORT

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| Customer Sample ID | Boiler Fuel Feed 9/30/19 | | |
|---------------------|--------------------------|--|--|
| Lab Sample ID | 19F01598-001 | | |
| pH of a 25% Mixture | 5.92 | | |

By

Mark A Pugh

Fuel Laboratory Manager



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| Customer Sample ID | | Boiler Fuel Feed 9/30/19 | |
|-------------------------|---|--------------------------|--|
| Lab Sample ID | | 19F01598-001 | |
| Sodium in Ash as Na2O | % | 3.47 | |
| Potassium in Ash as K2O | % | 5.34 | |
| Chlorine in Ash | % | 0.98 | |
| Carbon Dioxide in Ash | % | 0.46 | |

Bv:

The sample was ashed at 600 degrees celsius prior to analysis.

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ANALYTICAL REPORT

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Client Sample ID Boiler Fuel Feed 9/30/19

Lab Sample ID 19F01598-001

| Reporting Basis > | As Rec'd | Dry | Air Dry | |
|-----------------------------|----------|--------|----------------------------|-------|
| Proximate (%) | | | | |
| Moisture | 17.35 | 0.00 | 2.03 | |
| Ash | 8.23 | 9.96 | 9.76 | |
| Volatile | 59.17 | 71.59 | 70.14 | |
| Fixed C | 15.25 | 18.45 | 18.07_ | |
| Total | 100.00 | 100.00 | 100.00 | |
| Sulfur | 0.214 | 0.259 | 0.254 | |
| Btu/lb (HHV) | 6188 | 7487 | 7335 | |
| Btu/lb (LHV) | 5567 | 6952 | | |
| MMF Btu/lb | 6788 | 8389 | | |
| MAF Btu/lb | | 8315 | | |
| Ultimate (%) | | | | |
| Moisture | 17.35 | 0.00 | 2.03 | |
| Carbon | 38.14 | 46.15 | 45.21 | |
| Hydrogen | 4.77 | 5.77 | 5.65 | |
| Nitrogen | 0.51 | 0.62 | 0.61 | |
| Sulfur | 0.214 | 0.259 | 0.254 | |
| Ash | 8.23 | 9.96 | 9.76 | |
| Oxygen* | 30.79 | 37.24 | 36.49 | |
| Total | 100.00 | 100.00 | 100.00 | |
| Chlorine** | 0.140 | 0.169 | 0.166 | |
| Air Dry Loss (%) | | 15.64 | Lb. Alkali Oxide/MM Btu = | 1.17 |
| Forms of Sulfur, as S, (%) | | | Lb. Ash/MM Btu= | 13.31 |
| | | | Lb. SO2/MM Btu= | 0.693 |
| Sulfate | | | Lb. CI/MM Btu= | 0.23 |
| Pyritic | | | F-Factor(dry),DSCF/MM Btu= | 9,979 |
| Organic | | | | |
| Total | 0.214 | 0.259 | | |
| Water Soluble Alkalies (%) | | | Report Prepared By: | |
| vvater Soluble Alkalles (%) | l | | Map | |
| Na2O | 0.139 | 0.168 | many | |
| K2O | 0.224 | 0.270 | / / / | |
| | | | Mark A Duah | |

^{*} Oxygen by difference

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^{**} Not usually reported as part of the ultimate analysis.



Hazen research Inc.

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Tel: (303) 279 - 4501 Fax: (303) 278 - 1528

SAMPLE SUBMITTAL FORM

| Sample Identification | BOILER FUEL FEED | Date 9-30-19 |
|---|---|--|
| X Ultimate, Proxi | | Date 12 |
| Ultimate | | |
| Proximate | | |
| Moisture | | |
| Ash | | |
| Sulfur | | |
| Calorific Value. I | BTU / Ib | |
| X Chlorine | | |
| Elemental Analys | sis of ash(Si, A1, Ti, Fe, Ca, I | Ma Na K D o |
| X Chlorine in ash | , | wg, Na, K, P, S as oxides) |
| X Carbon Dioxide in | n ash | |
| Fusion temperatu | res of ash (oxidizing & reduc | ina) |
| | alis (Na2O & K2O) | 9) |
| Water soluble cald | | |
| X Alkali, Lbs / MMB | TU (Need Na2O & K2O in ash | If Flemental is not must |
| Sodium in ash (Na | 320) | · Liomental is not run) |
| Potassium in ash (| (K2O) | |
| Submit samples to: | | Reports 9 Dilling 1 |
| Hazen research, Inc. | | Reports & Billing to: |
| Attn: Gerard H Cunningham 1601 Indiana St. Golden, Colorado 80403 | | Colmac Energy, Inc. Paula Bates Po Box 758 Mecca, Ca. 92254- 0758 |

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